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(54) **HAND HELD PORTABLE THREE DIMENSIONAL SCANNER**

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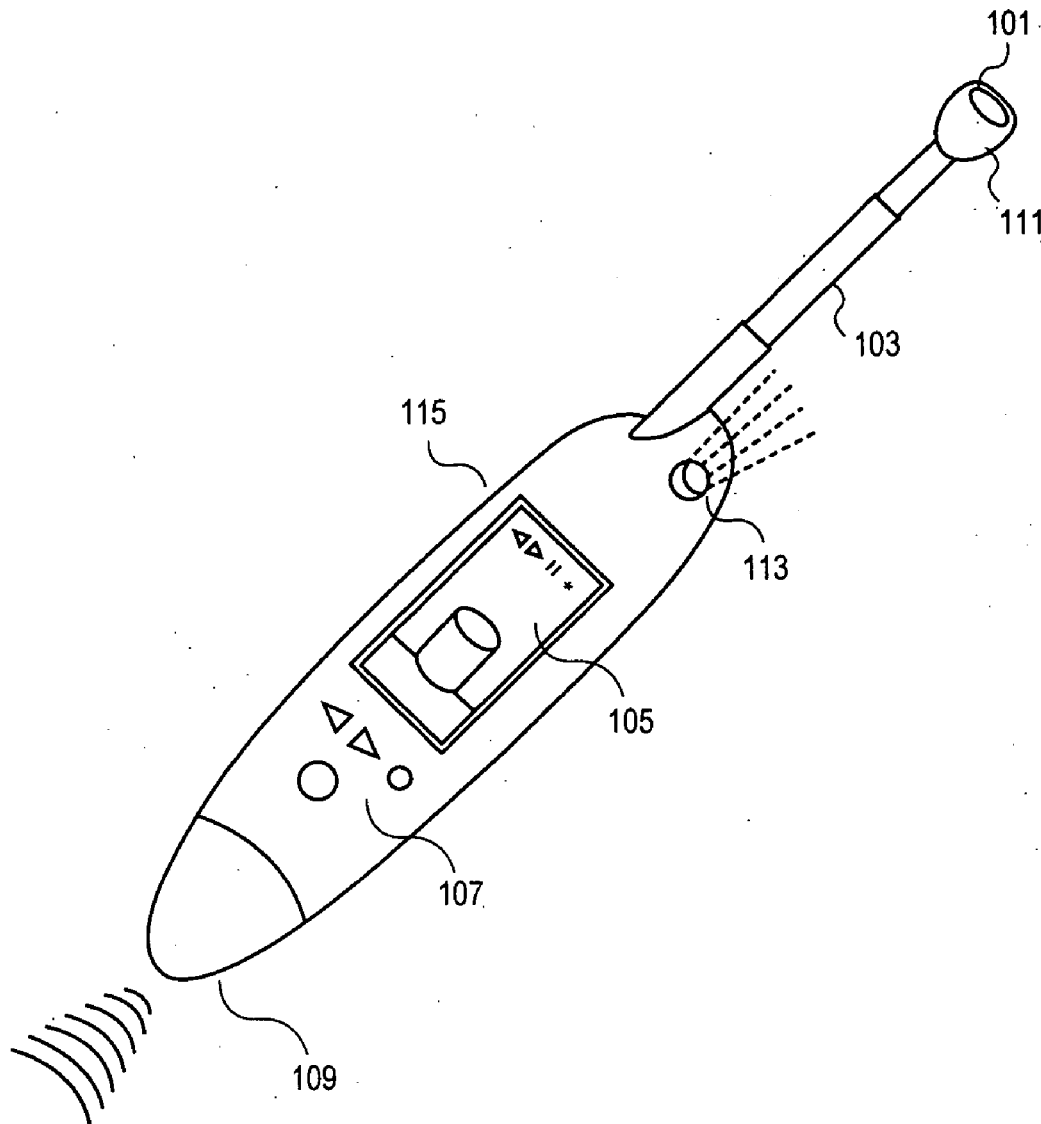
(57) **ABSTRACT**

Embodiments of the invention may include a scanning device to scan three dimensional objects. The scanning device may generate a three dimensional model. The scanning device may also generate a texture map for the three dimensional model. Techniques utilized to generate the model or texture map may include tracking scanner position, generating depth maps of the object and generation composite image of the surface of the object.

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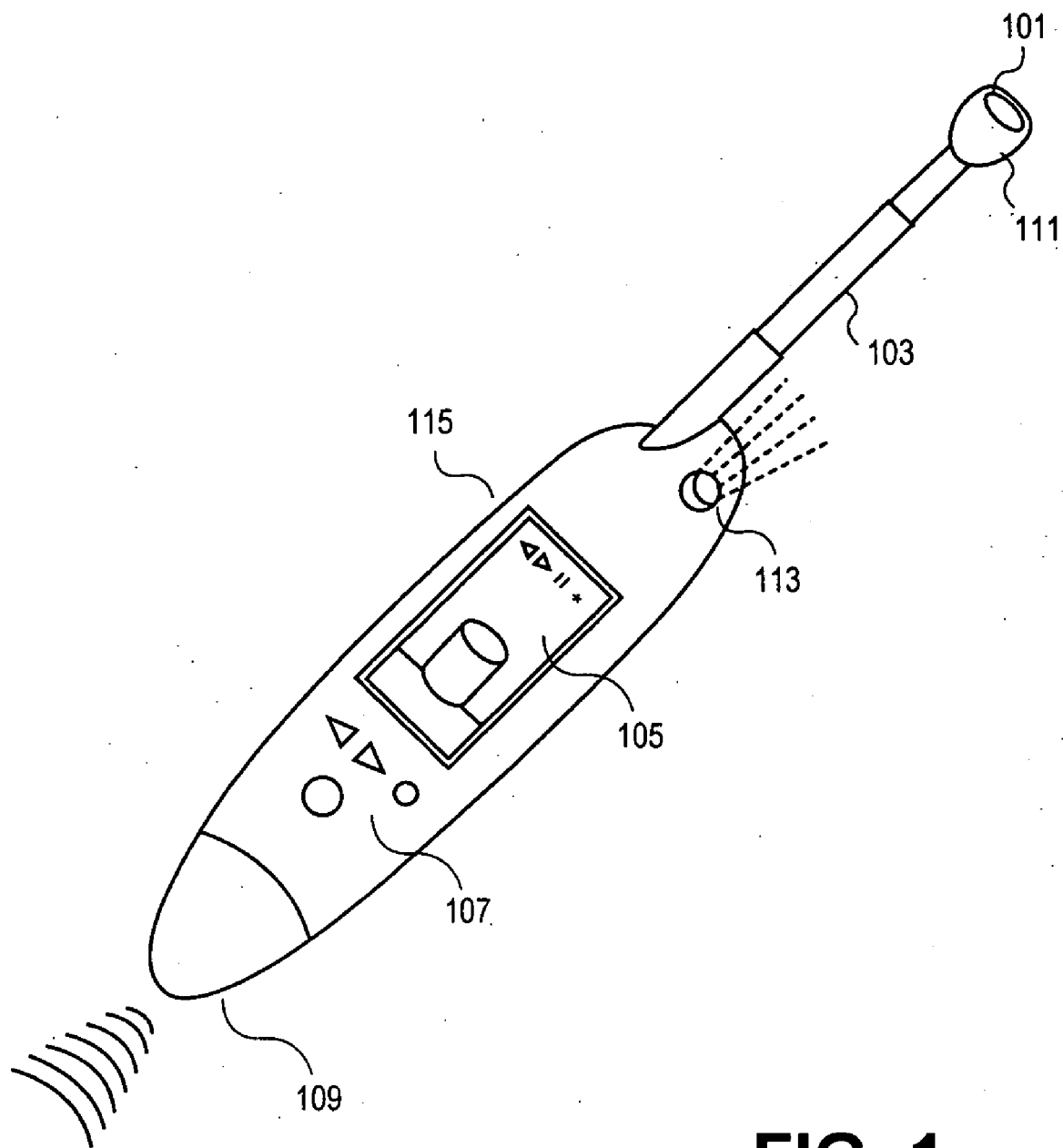


FIG. 1

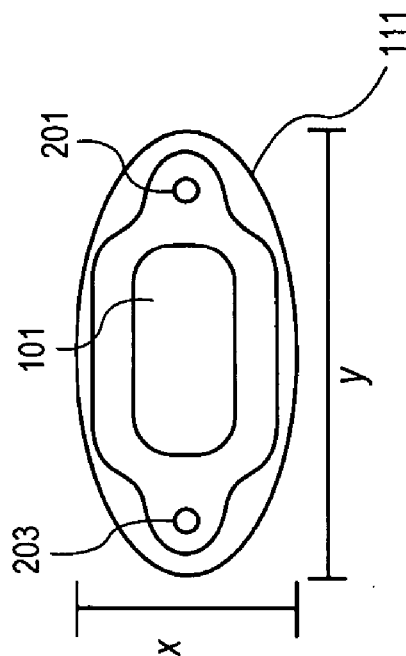


FIG. 2B

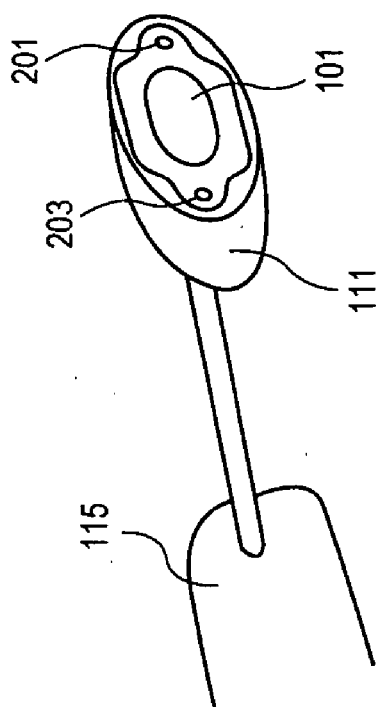


FIG. 2A

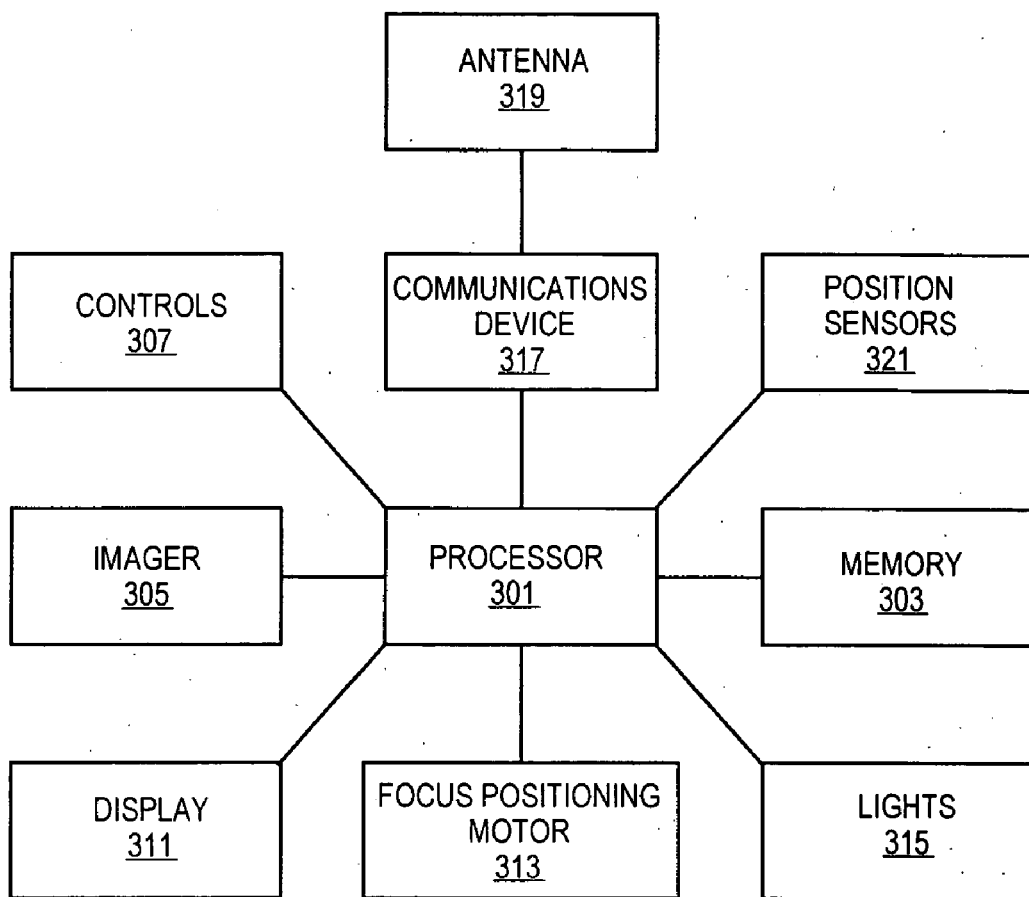
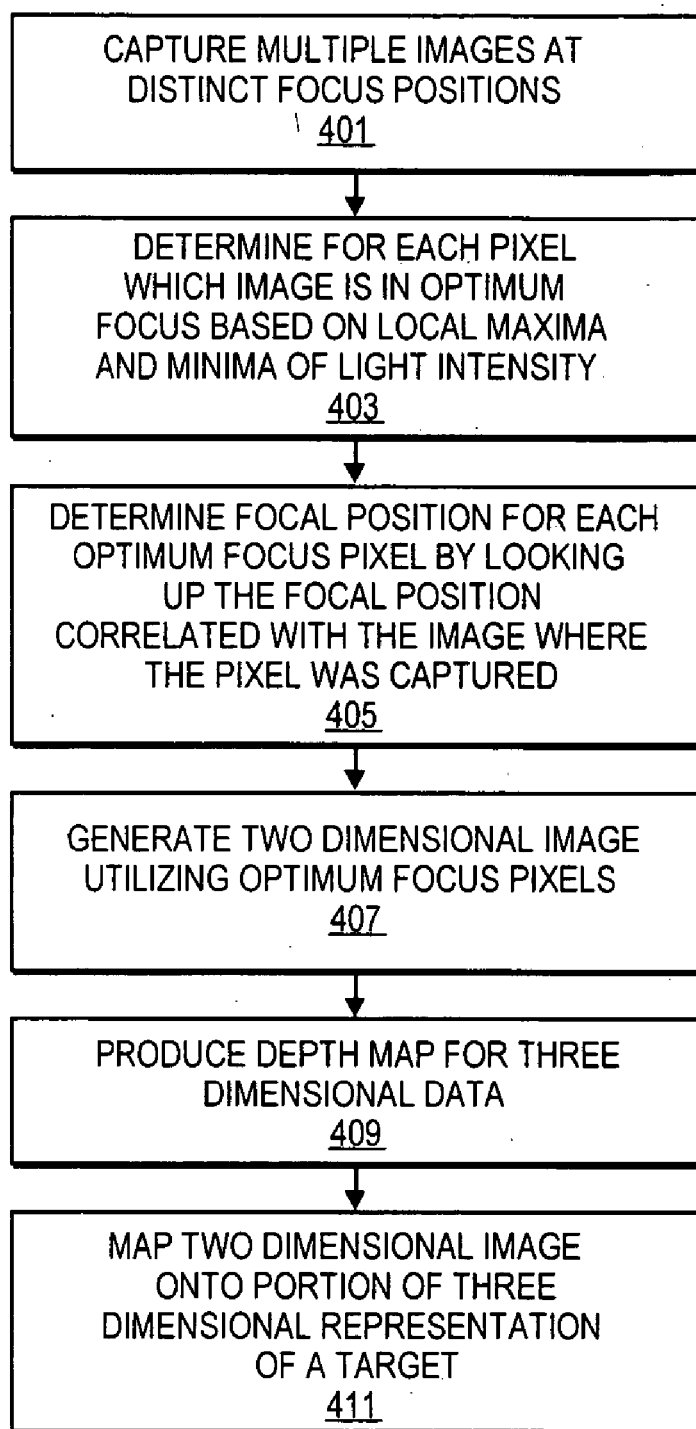


FIG. 3

**FIG. 4**

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